

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) Stress/strain measuring sensor for the continuous monitoring of stress/strain conditions, ~~especially in screwed bolts,~~
characterized in that wherein the sensor (1) comprises:
 a first inductor; (3) and
 at least one other element (2), which is made of piezoelectric or magnetostrictive material, and which comprises at least one pressure-dependent first impedance (5) or a second impedance (5') and a second inductor (3'),
 wherein the second impedance (5') and/or the second inductor (3') are pressure-dependent, so that when the amount of pressure being applied to the at least one other element (2) is changed, the resonant frequency of an electromagnetic resonating circuit (3, 5; 3', 5') that is formed by impedance (5; 5') and inductor (3; 3') changes.

2. (Currently Amended) Stress/strain measuring sensor according to Claim 1, **characterized in that wherein** the at least one other element (2) comprises at least the pressure-dependent first impedance (5), and **wherein that** the first inductor (3) and the first impedance (5) form the electromagnetic resonating circuit (3, 5).

3. (Currently Amended) Stress/strain measuring sensor according to Claim 2, **wherein characterized in that** the at least one other element (2) is made entirely or partially of a dielectric material.

4. (Currently Amended) Stress/strain measuring sensor according to Claim 1, ~~wherein characterized in that~~ the at least one other element (2) comprises at least the pressure-dependent second impedance (5') and the second inductor (3'), wherein the pressure-dependent second impedance (5') and the second inductor (3') are connected in parallel and form the electromagnetic resonating circuit (3', 5'), so that when the amount of pressure being applied to the at least one other element (2) changes, the resonant frequency of the circuit shifts.
5. (Currently Amended) Stress/strain measuring sensor according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the sensor (1) is designed essentially as a foil, on which the first inductor (3) and contact surfaces (4, 7) for contacting the element (2) are arranged.
6. (Currently Amended) Stress/strain measuring sensor according to Claim 5, ~~characterized in that~~ wherein the foil-type sensor (1) encompasses the at least one other element (2) at least partially in the area of the contact surfaces (4, 7).
7. (Currently Amended) Stress/strain measuring sensor according to Claim 5 or 6, ~~characterized in that~~ wherein the section of the foil-type sensor (1) that is equipped with the first inductor (3) projects out over the element (2).
8. (Currently Amended) Stress/strain measuring sensor according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein the first inductor (3) serves as both coupling and decoupling element.
9. (Currently Amended) Stress/strain measuring sensor according to Claim 1 ~~one of the preceding claims, characterized in that~~ wherein a testing device (14) for checking the stress/strain condition ~~can be~~ is coupled, contact-free, to the sensor (1) via the first inductor (3).

10. (Currently Amended) Stress/strain measuring sensor according to Claim 1 ~~one of the preceding claims, characterized in that~~ the at least one other element (2) is integrated into a flat washer (10).

11. (Currently Amended) Stress/strain measuring device according to Claim 10, ~~characterized in that~~ wherein a second element is arranged in the flat washer (10) to allow comparative measurement to compensate for the effects of temperature and aging.

12. (Currently Amended) Stress/strain measuring sensor according to Claim 10 or 11, ~~characterized in that~~ wherein the flat washer (10) ~~can be~~ is positioned between a mounting assembly (11) and a structure (12) that is connected to said mounting assembly.

13. (Currently Amended) Method for stress/strain measurement, ~~especially in~~ serewed bolts, characterized in that comprising the act of:

arranging, between a mounting assembly and a structure connected to the mounting assembly, at least one element (2), made of piezoelectric or magnetostrictive material, of a sensor (1) with a first inductor (3), which comprises at least one pressure-dependent first impedance (5) or a second impedance (5') and a second inductor (3'), wherein the second impedance (5') and/or the second inductor (3') are pressure-dependent, ~~is arranged between a mounting assembly (11) and a structure (12) that is connected to the mounting assembly,~~ such that when the amount of pressure applied to the at least one other element (2) changes, the resonant frequency of an electromagnetic resonating circuit (3, 5; 3', 5') that is formed by impedance (5; 5') and inductor (3; 3') is changed.

14. (Currently Amended) Method for stress/strain measurement according to Claim 13, ~~characterized in that~~ wherein the element (2) is compressed when pressure is applied, and is released from said compression as the amount of pressure applied is decreased.

15. (Currently Amended) Method for stress/strain measurement according to Claim 13 ~~or 14~~, ~~characterized in that~~ wherein the electromagnetic resonating circuit (~~3, 5; 3', 5'~~) projects out over the first inductor (3).

16. (Currently Amended) Method for stress/strain measurement according to Claim 13, ~~14 or 15~~, ~~characterized in that~~ wherein the measurement of the resonant frequency of the electromagnetic resonating circuit (~~3, 5; 3', 5'~~) is accomplished via a contact-free coupling to the first inductor (3).

17. (Currently Amended) Method for stress/strain measurement according to ~~one of the claims~~ Claim 13, through 16, ~~characterized in that~~ wherein a comparative measurement is conducted using a second element, so that shifts in the resonant frequency can be identified.